Microsoft Windows “Terminal-Server” (RDS) or “Citrix XenApp”

vs.

Virtualaze™
“Managed Application Virtualization”
Virtualize vs. MS Windows Terminal-Server or Citrix XenApp

Microsoft Windows Terminal-Server

Microsoft Windows Terminal-Server (RDS, aka Terminal Services) is a component of Windows Server (2008R2, 2012R2 and 2016) Operating Systems. Users are able to access a Windows Desktop or “unmanaged” remote Applications in what is called ‘Kioskmode’.

Today and with RDS: 80% of Admin time is spent maintaining Microsoft Windows RDP/Terminal-Server and Application deployments for Windows Desktop Users!

RDS: Client independant Software / Devices

With Remote Desktop Services, Microsoft focuses primarily on Windows clients. There are certified and secure RDP software products for iOS or Android, but with these products only the whole desktop can be published. Therefore, Remote Applications or access via a gateway is not possible.

RDS: Microsoft WebRDP solution

Microsoft also has a WebRDP solution, but this solution needs a browser plugin and only works correctly on Microsoft browsers. These solutions are not easy to maintain and can’t be upgraded centrally for all client devices and installations.

Citrix XenApp:

Citrix XenApp is also based on RDS services from Microsoft. However, Citrix offers a wide range of native Client Software (Windows, Mac, Java, Linux, iOS, Android, Blackberry, Windows Mobile, ChromeOS, HTML5 etc.) and runs everything through their HDX protocol stack. The main drawback for this type of solution is that Citrix customers and in particular the administrator, often needs to update all the client devices on the IT infrastructure individually with the latest. This is a very slow and very costly in terms of time and effort.

Citrix supplies world class management tools, but these tools are often over complicated not required. Without professional training and additional effort these solutions can’t be managed. Citrix is also expensive and administrators have to rely on Citrix support.
Virtualaze Standard and Professional Edition

Virtualaze (Standard and Professional Editions) is a much better alternative to Citrix XenApp and Microsoft Windows Terminal-Server because Virtualaze utilizes Windows Application Interfaces and System components to extend or facilitate scalability and easier administration.

**Spend just only 20% of your Admin time** for the same effort, get a much more enhanced product, avoid mistakes and downtimes all at an affordable price. Don’t waste time and money unnecessarily!

Virtualaze Professional also delivers a Windows Application Launcher and an HTML5 Application Launcher, both of which run through a fast and secure Web/Cloud Gateway Server. With this solution Virtualaze is both flexible and suitable for all devices and operating systems.

With Virtualaze it is also possible to use printers that are connected to a Microsoft print server and only the Virtualaze Universal Printer Driver (release 3.4) is required on RDS Servers and no additional Printer Server is required to be installed.

Illustration: Virtualaze Application Server scenario with multiple single virtual Application sessions per User.
**Virtuallaze Deployment Center** (Administration)

The **Virtuallaze** Deployment Center is a high-end and highly integrated administration solution, which allows you to manage all your Application Servers, virtual Applications, Users, Groups, Backups and Licenses. However, unlike other products it’s very simple to use and manage and you don’t need any training.

The entire solution has a logical approach that empowers you to deploy any application to multiple users on your IT infrastructure within a matter of. Therefore the Deployment Center enables Administrators to save time, money and effort which can be better used elsewhere.

*Virtuallaze* Deployment Center solution enables you to manage all of your resource and have a complete overview.
Why is Virtualaze RAP Protocol stack better?

The Virtualaze Remote Application Protocol stack is a proprietary technology for a reason:

1. **Virtualaze** is **totally independent** from any Microsoft protocol and tools.

2. **Virtualaze** has the **ability to enhance and add more new features**. This is similar to how Citrix worked initially, but Virtualaze has taken it one step further in terms of updated software clients.

**Single RDP session Desktop* vs. Virtualaze Multi Application-Session/User**

In comparison to a Microsoft RDP connection and Desktop, with Virtualaze, for every new Application Window there is a separated Window and reserved session.

Increased Reliability and Stability – **Virtualaze** RAP and Application Launcher encapsulate and run multiple Windows Applications in multiple “separate” virtual Application sessions and connections.

*Microsoft runs all Applications and the entire Windows Desktop inside a single user session. This means if one of the Applications inside the Microsoft RDP session hangs or is occupied, the entire session and productivity goes down.*

**How does Virtualaze “Remote Application Protocol” (RAP) work?**

The screen content of every virtual Application runs inside the Virtualaze high end virtual Graphic Adapter on the Application Server(s). Flash content is also compatible and runs inside the virtual video adapter. This is digitally transferred directly to the client side over IP. Adobe Flash Player plugins or services don’t need to be installed on the client side.

**What is better about Virtualaze?**

With the Virtualaze Standard and Professional Editions, the Virtualaze Provisioning can be used. The Provisioning allow you to supply standardized Virtualaze servers to virtual or physical servers.

What are the 10 Key Features of Virtualaze?

Virtualaze contains serveral key features which Microsoft Terminal-Server can’t and won’t ever offer:

1. **Virtualaze supports a mix of multiple Application Servers** within one solution (Administration tool and Users Workspace Desktop). A **complete cluster** could run behind a single and ‘smart’ user login via the Virtualaze Application Launcher.

2. **Virtualaze can support powerful 64-Bit Desktop OS/s** which can be used as Application Servers. This means multiple Windows Server and Desktop OS Application Servers can be combined which supply a scalable and full range system compatibility. This means Virtualaze supports a single Workspace Desktop environment for multiple various/different Application releases e.g. Excel, Word etc.

3. **Single point Management:** The Virtualaze Deployment Center Tool for Administrators means: 1. one time installation, 2. Ability to deploy to various users multiple times no matter where or what device 3. Easy, fast and logical. All of these help to save your administrators time and your CIO’s money.

4. **Single point Licensing**, Deployment and Brokerage: The remotely accessible central License, Deployment and Brokerage Server includes automated backup services for high redundancy.

5. **Virtualaze guarantees the highest compatibility level** because it’s a tested and reliable solution, not just an addon, a third party client software or plugin to the Microsoft Terminal-Server.

6. **Virtualaze offers an affordable solution with regular updates, fixes and improvements.**

7. **Virtualaze offers partners and customers competetive license prices** in comparison to other expensive solutions.

8. **Virtualaze offers support and service that is second to none.** There is no need to search for hours for technical solutions, unlike the market leaders who are at arms length with their customers.

9. **Virtualaze respects its partners and customers as well as their needs** and therefore supplies the best and most intuitive technical solution available.

10. **Green & Sustainable:** With Virtualaze you can reuse and prolong the lifespan of your existing computers which saves additional money and headache.
**Virtualaze** is a proprietary designed solution with the following advantages:

- **Lower bandwidth** than RDP-clients. RAP protocol for LAN and WAN (cloud/internet).

- **Virtualaze has a much lower memory footprint** for the Application Launcher Workspace Desktop (3,7MB) in comparison to the Microsoft RDP-Client (mstsc.exe: 163 MB). This allows you to allocate more users sessions and more virtual Applications per Server, which also means that lower spec client hardware can be utilized.

- **Multimedia ready & security built in** - RAP offers different security levels (up to 128 Bit SSL)

- **Backward compatible** - Remote Access and Application Launcher for Windows XP and higher Windows OS/s, including embedded Windows OS/s.

- **Broadband compatible** - Remote Access and Application Launcher for any Browser via HTML5 – **any computing device and OS**.

- **Comprehensive Administration** - unlimited Application Servers virtual Windows Applications, Users, Groups etc..

- **High-Speed Protocol** - RAP works with compression algorithms that have lower bandwidth requirements. This means more users per network segment and less expensive networking equipment is required

- **Higher flexibility** - to be able to develop more new features in the future - RAP works with virtual protocol channels

- RAP and AppLauncher support **unlimited virtual sessions with just one single login**

- **Higher-Session Resolution** - RAP also supports upto 4K resolutions per Application window (release 3.3x)

- **Increased Hardware and OS/s compatible** - supports various hardware and operating system platforms – **Virtualaze** HTML5 Gateway Server supports and supplies just HTML5 ready data that can be interpreted by Linux, Android, Macbook, iPad browser access and login

---

Copyright © 2009-2017 and Trademark by Virtualaze GmbH Europe – www.virtualaze.com
- **Multi-Login Ready** – multiple users (with the same or different accounts) are allowed to start the Application Launcher several times on one device

- **Multi-Screen Ready** – this feature is inside the Application Launcher to support “undocked” Application session window(s)

- **Multi-Subnet Mask Support** – The Application Launcher is able run virtual Applications in/over the same or different subnet masks, which means it can work in different networks or locations

- **Multi-Application Server support** – The Application Launcher supports and is able to run and supply multiple virtual Applications from multiple Application Servers

- **Multi-Host Platform Support** - Virtualaze is compatible with VM and physical hosts

- **Windows Desktop Support** – virtual Applications can be started from your local Windows Desktop client device as an icon

- **Full Control** - over all of your Application Servers, virtual Applications, Users, Groups as well as User Licensing.

- **Exclusive Mode** – automatic disabling of the local Windows clients Desktop and Taskmanager. After a restart only the Application Launcher starts. This means you can’t modify or manipulate the client device(s). Windows PCs, Laptops, Tablets or Thinclients as they will be switched to ‘Kioskmode’ and will display the Virtualaze Workspace Desktop.
Additional Notes

Software Versions: **Virtualaze** Standard Edition
            Professional Edition

Release: 3.3x and higher
Version: V0815B

PLEASE READ THESE NOTES CAREFULLY.

All the information contained herein is the property of Virtualaze GmbH Europe. No part of this guide (whether in hardcopy or electronic form) may be reproduced or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written consent of Virtualaze. The software described in this document is furnished under license and may only be used or copied in accordance with the terms of the license agreement.

This guide and the information herein is furnished ‘AS IS’, and is subject to change without notice and should not be construed as a commitment by **Virtualaze**. **Virtualaze** assumes no responsibility or liability for any errors or inaccuracies, makes no warranty of any kind (express, implied, or statutory) with respect to this publication, and expressly disclaims any and all warranties of merchantability, fitness for particular purposes, and no infringement of third party rights.

Any references to company names in sample templates are for demonstration purposes only and are not intended to refer to any actual organization.

Microsoft and Windows are registered trademarks or trademarks of Microsoft Corporation in the United States and other countries. All other trademarks are the property of their respective owners.

If this guide is distributed with software that includes an end user subscription agreement, this guide, as well as the software described in it, is furnished under license and may be used or copied only in accordance with the terms of such license. Except as permitted by any such license, no part of this guide may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, recording, or otherwise, without the prior written permission of the Virtualaze GmbH Europe. Please note that the content in this guide is protected under copyright law even if it is not distributed with software that includes an end user license agreement.

The content of this guide is for information only. It is subject to change without notice, and should not be construed as a commitment by **Virtualaze**. **Virtualaze** assumes no responsibility or liability for any errors or inaccuracies that may appear in the information contained in this guide. All rights reserved.
Disclaimer and Copyright Notice

Virtualaze GmbH Europe makes no representations or warranties with respect to the contents or use of this publication. Virtualaze GmbH Europe especially disclaims any expressed or implied warranties, merchantability or fitness for any particular purpose. Virtualaze GmbH Europe reserves the right to make any changes in specifications and other information contained in this publication without prior notice and without obligation to notify any person or entity of such revisions or changes.

Information in this document is subject to change without notice. Companies, names and data used in examples herein are fictitious unless otherwise noted. Other than printing one copy for personal use, no part of this document may be reproduced or transmitted in any form or by any means, electronic or mechanical, for any purposes, without the expressed written consent of:

Virtualaze GmbH Europe, Germany.

Intellectual Property and Acknowledgements

Virtualaze is a registered trademark of Virtualaze GmbH Europe, Germany.


Citrix is a trademark of Citrix Inc., as well Citrix XenApp is a registered trademark of Citrix Inc./USA.

Adobe, Acrobat, Reader are registered trademarks of Adobe Systems Inc.

End of document.